PATENT COOPERATION TREATY

REC'D	17	MAY	2005
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
RUTGER 0004 International application No.	International filing date (day/mon	nth/year) Priority date (day/month/year)		
International application 140.	13 November 2003 (13.11.2003)	1007 1 2002 (12 11 2002)	_	
PCT/US03/36292 International Patent Classification (IPC)	or national classification and IPC			
	•			
IPC(7): C07K 14/00 and US Cl.: 435/69.	/			
Applicant				
RUTGERS, THE STATE UNIVERSITY				
This international prelimin Examining Authority and	nary examination report has been is transmitted to the applicant a	en prepared by this International Preliminary according to Article 36.		
	sheets including this cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of			_	
3. This report contains indic	ations relating to the following	; items:		
I Basis of the re	port	·		
II Priority	•	91.9.2144	1	
III Non-establish	nent of report with regard to no	ovelty, inventive step and industrial applicability		
. IV Lack of unity	of invention		Ì	
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement				
VI Certain docum		•		
VII Certain defect	s in the international application	on.		
	The state of the international application			
		ate of completion of this report	_	
Date of submission of the demand		ho	/	
01 October 2004 (01.10.2004)	/	2005 (10.05.2005)		
Name and mailing address of the IPEA Mail Stop PCT, Attn: IPBA/ US		uthorited officer BMAGA		
Commissioner for Patents	YA.	R/Salimi		
P.O. Box 1450 Alexandria, Virginia 22313-1450	Te	elephone No. (571) 272-1600		
Facsimile No. (703) 305-3230 Form PCT/IPEA/409 (cover sheet)(July	1998)			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US03/36292

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	Basis of the report
1.	With regard to the elements of the international application:*
	the international application as originally filed.
	the description: pages 1-74 as originally filed
	pages NONE filed with the demand
	pages NONE, filed with the letter of
	the claims:
	pages 76-79 as originally filed pages NONE as amended (together with any statement) under Article 19
	pages NONE , filed with the demand
	pages NONE , filed with the letter of 28 January 2005 (28.01.2005)
	the drawings:
	pages 1-11 as originally filed pages NONE filed with the demand
	pages NONE filed with the letter of
	the sequence listing part of the description:
	pages NONE, as originally filed pages NONE, filed with the demand
	pages NONE , filed with the letter of
2	With regard to the language, all the elements marked above were available of infinished to this item.
	language in which the international application was first, times of the same language which is:
	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	Swittention of the international application (under Rule 48.3(0)).
	the language of the translation furnished for the purposes of international preliminary examination furnished.
١,	55.2 and/or 55.3). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
٦	With regard to any nucleotide and/or artifled actual sequence distinguished and or artifled out on the basis of the sequence listing.
	contained in the international application in printed form.
١	filed together with the international application in computer readable form.
l	furnished subsequently to this Authority in written form.
l	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
	The amendments have resulted in the cancellation of:
	the description, pages NONE
	the claims, Nos. NONE
	the drawings sheets/fig NONE
	This report has been established as if (some of) the amendments had not been made, since they have been considered to go
	beyond the disclosure as filed, as indicated in the supplication of the response to an invitation under Article 14 are referred to Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to Replacement sheets which have been furnished to this report since they do not contain amendments (Rules 70.16 and 70.17). This report as "originally filed" and are not amendments must be referred to under item 1 and annexed to this report.
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/36292

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
 Non-establishment of opinion with regard to hoverty, investigation of the control o		
	the entire international application,	
$\overline{\boxtimes}$	claims Nos. <u>5-7,10 and 13-42</u>	
becau	se:	
	the said international application, or the said claim Nos relate to the following subject matter which does not require international preliminary examination (specify):	
	*	
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):	
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.	
no international search report has been established for said claims Nos. 5-7,10 and 13-42		
A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: Company Compa		
	the written form has not been furnished or does not comply with the standard.	
	the computer readable form has not been furnished or does not comply with the standard.	

NTEDNATIONAL	PRELIMINARY EXAMINATION REPORT	
NTERNATIONAL	PRELIMINARY EXAMINATION REPORT	

International application No. PCT/US03/36292

V. Reasoned statement under Rule 66.2(a)(ii)	with regard to novelty, inventive step or industrial ap	plicability;
citations and explanations supporting such	h statement	
1. STATEMENT]
Novelty (N)	Claims 1-4, 8, 9, 11, 12	YES
,	Claims NONE	NO
		YES
Inventive Step (IS)	Claims NONE Claims 1-4, 8, 9, 11, 12	NO
	Ciamis 1-4, 6, 7, 11, 12	
ν γ 1 Applicability (ΓΔ)	Claims 1-4, 8, 9, 11, 12	YES
Industrial Applicability (IA)	Claims NONE	NO
	· · · · · · · · · · · · · · · · · · ·	
taught labeled fusion protein to NS1 (see page 42, 11) The newly amended claims filed (28 Janua	ary 2005) have added limitations of "dsRNA of about 16 base page yang et al. WANG et al taught a 55 base pair dsRNA (see page	pairs in length", to 44). However, the ts "the Length and
ribonucleotide sequence of the distNA are not vinte synthetic dsRNA. Thus, one of ordinary skill in the utilize the binding assay for drug discovery. Especinot critical. Therefore, given the teaching of the properties of the pro	art at the time of filing would have been motivated by teaching art at the time of filing would have been motivated by teaching ially given Applicants' won admission in the disclosure that the irrest one of ordinary skill in the art at the time of filing would	of WANG et al to size of the dsRNA is not have anticipated
L names 222-228		
NS1 (see Figure 1).	iding to daRNA (see the abstract). In addition, they taught label	•
overcome the lack of novelty over the teaching of L invention as a whole is prima facie obvious, becaus ribonucleotide sequence of the dsRNA are not critic synthetic dsRNA. Thus, one of ordinary skill in the utilize the binding assay for drug discovery. Espec not critical. Therefore, given the teaching of the prany unexpected results. The authority cannot find a disclosure.	pary 2005) have added limitations of "dsRNA of about 16 base. U et al. LU et al taught a 29 base pair dsRNA (see page 223), see the Applicants' own disclosure on page 21, lines 28 to 29 assect!". Applicants go on to assert that the invention may be conducted at the time of filing would have been motivated by teaching its light of the properties of the properties of the art at the time of filing would have been motivated. The authority cannot find any unexpected results. The authority cannot find any unexpected results.	arts "the Length and acted using short g of LU et al to size of the dsRNA is not have anticipated ted results in the
Claims 1-4, 8, 9, 11, 12 meet the criteria set out in claimed can be made or used in industry.	PCT Article 33(4), and thus have industrial applicability becaus	e the subject matter
1		
NONE NEW CITATIONS		
	4	